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though possibly without sufficiently encouraging initiative. The book should be useful in classes somewhat above the grade of the first year in the high school, especially in those laboratories where very full directions are needed. At the same time, it is a question whether the author does not err, in common with many other writers of textbooks of this class, in giving structure complete predominance. In the study of living things it would appear that vital processes and relations should furnish the motive of the course. At any rate, it is scarcely fair to the pupil's perspective to relegate physiology to a few pages, in the nature of an appendix, with occasional references from the body of the text. One would prefer it to be an integral and important part of the laboratory directions.—W. L. EIKENBERRY.

North American flora.[7]—Volume XVI, part I, of this work contains an elaboration of the Ophioglossales-Filicales as follows: Ophioglossaceae by L. M. UNDERWOOD and R. C. BENEDICT; Marattiaceae by L. M. UNDERWOOD; Osmundaceae and Ceratopteridaceae by R. C. BENEDICT; Schizaeaceae, Gleicheniaceae, and Cyatheaceae (pars) by W. R. MAXON. New species are described in the following genera: Ophioglossum (1), Danaea (1), Marattia (1), Aneimia (7), Dicranopteris (1), and Cyathea (4).—J. M. GREENMAN.

NOTES FOR STUDENTS

Chromosome reduction in Oenothera.—DAVIS[8] publishes an account of chromosome reduction in *Oenothera grandiflora* which is a strong confirmation of the earlier work of GEERTS[9] on *O. Lamarckiana*, and of the reviewer on *O. Lamarckiana* and a number of its mutants and hybrids, especially *O. rubrinervis.*[10] As regards the main facts of reduction the results are the same in all three cases, and even many of the finer details of the reviewer's results are here corroborated, though there are evidently certain differences of behavior between *O. Lamarckiana*

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[7] North American Flora, Vol. XVI, part I, pp. 1–88. New York Botanical Garden. 1909.

[8] DAVIS, B. M., Cytological studies on Oenothera. I. Pollen development of *Oenothera grandiflora.* Annals of Botany **23**:551–571. *pls. 41, 42.* 1909.

[9] GEERTS, J. M., Beiträge zur Kenntnis der cytologischen Entwicklung von *Oenothera Lamarckiana.* Ber. Deutsch. Bot. Gesells. **26a**:608–614. 1908.

———, Beiträge zur Kenntnis der Cytologie und der partiellen Sterilität von *Oenothera Lamarckiana.* Rec. Travaux Bot. Néerlandais **5**:93–208. *pls. 5–22.* 1909.

[10] GATES, R. R., Pollen development in hybrids of *Oenothera lata* × *O. Lamarckiana*, and its relation to mutation. BOT. GAZETTE **43**:81–115. *pls. 2–4.* 1907.

———, Hybridization and germ cells of *Oenothera mutants.* BOT. GAZETTE **44**:1–21. *figs. 3.* 1907.

———, A study of reduction in *Oenothera rubrinervis.* BOT. GAZETTE **46**:1–34. *pls. 1–3.* 1908.

———, The behavior of chromosomes in *Oenothera lata* × *O. gigas.* BOT. GAZETTE **48**:179–199. *pls. 12–14.* 1909.